

IN THE CLAIMS:

1. to 4. (Canceled)

5. (Currently Amended) The heat-sealing machine method according to claim ~~1~~ 10, wherein

the package is formed from a laminated structure including, as essential components, a base layer, an adhesive layer, a first chemical conversion coating, a barrier layer, a second chemical conversion coating and an innermost layer.

6. (Currently Amended) The heat-sealing machine method according to claim 5, wherein

the innermost layer is a polyolefin resin film, and the innermost layer is bonded to the second chemical conversion coating by dry lamination.

7. (Currently Amended) The heat-sealing machine method according to claim 5, wherein

the laminated structure further includes an acid-modified polyolefin resin layer sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer

is formed of a polypropylene resin, and the acid-modified polyolefin layer and the innermost layer formed of the polypropylene resin are laminated by hot lamination at a process temperature not lower than the softening point of the acid-modified polyolefin resin.

8. (Currently Amended) The heat-sealing machine method according to claim 5, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is a polyolefin resin film, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by sandwich lamination, and the laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

9. (Currently Amended) The heat-sealing machine method according to claim 5, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer,

Serial No. 09/936,512

the innermost layer is formed of a polyolefin resin, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by coextrusion, and the laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

10. (Original) A heat-sealing method comprising the steps of:

putting a polymer battery module provided with a tab in a pouch package having one unsealed part through the unsealed part so that the tab is placed in the unsealed part of the pouch package; and

heat-sealing the unsealed part of the pouch package with a pair of sealing heads respectively having sealing surfaces, at least one of which being provided with a recess in a part corresponding to the tab.

11. (Original) A heat-sealing method comprising the steps of:

putting a polymer battery module provided with a tab in an embossed package; and

heat-sealing the embossed package with a pair of sealing heads respectively having sealing surfaces, at least one of which being provided with a recess in a part corresponding to the tab.

12. to 21. (Canceled)

22. (New) The heat-sealing method according to claim 11, wherein

the package is formed from a laminated structure including, as essential components, a base layer, an adhesive layer, a first chemical conversion coating, a barrier layer, a second chemical conversion coating and an innermost layer.

23. (New) The heat-sealing method according to claim 22, wherein

the innermost layer is a polyolefin resin film, and the innermost layer is bonded to the second chemical conversion coating by dry lamination.

24. (New) The heat-sealing method according to claim 22, wherein

the laminated structure further includes an acid-modified polyolefin resin layer sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is formed of a polypropylene resin, and the acid-modified polyolefin layer and the innermost layer formed of the polypropylene resin are laminated by hot lamination at a process temperature not lower than the softening point of the acid-modified polyolefin resin.

25. (New) The heat-sealing method according to claim 22, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is a polyolefin resin film, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by sandwich lamination, and the laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

26. (New) The heat-sealing method according to claim 22, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is formed of a polyolefin resin, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by coextrusion, and the laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

27. (New) A heat-sealing method comprising the steps of:

putting a polymer battery module provided with a tab in a pouch package having at least one unsealed part so that the tab is placed in the unsealed part of the pouch package; and

heat-sealing the unsealed part of the pouch package with a pair of sealing heads respectively having sealing surfaces, at least one of which being provided with a recess in a part corresponding to the tab, wherein the polymer battery module is provided with a pair of tabs, and the unsealed part of the pouch package is heat-sealed in a manner where adhesive films are interposed between the tabs and the unsealed part.

28. (New) The heat-sealing method according to claim 27, wherein

the package is formed from a laminated structure including, as essential components, a base layer, an adhesive layer, a first chemical conversion coating, a barrier layer, a second chemical conversion coating and an innermost layer.

29. (New) The heat-sealing method according to claim 28, wherein

the innermost layer is a polyolefin resin film, and the innermost layer is bonded to the second chemical conversion coating by dry lamination.

30. (New) The heat-sealing method according to claim 28, wherein

the laminated structure further includes an acid-modified polyolefin resin layer sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is formed of a polypropylene resin, and the acid-modified polyolefin layer and the innermost layer formed of the polypropylene resin are laminated by hot lamination at a process

Serial No. 09/936,512

temperature not lower than the softening point of the acid-modified polyolefin resin.

31. (New) The heat-sealing method according to claim 28, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is a polyolefin resin film, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by sandwich lamination, and the laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

32. (New) The heat-sealing method according to claim 28, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is formed of a polyolefin resin, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by coextrusion, and the



Serial No. 09/936,512

laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

33. (New) The heat-sealing method according to claim 27, wherein each of the adhesive films extend both the pair of tabs.

34. (New) The heat-sealing method according to claim 33, wherein

the package is formed from a laminated structure including, as essential components, a base layer, an adhesive layer, a first chemical conversion coating, a barrier layer, a second chemical conversion coating and an innermost layer.

35. (New) The heat-sealing method according to claim 33, wherein

the innermost layer is a polyolefin resin film, and the innermost layer is bonded to the second chemical conversion coating by dry lamination.

36. (New) The heat-sealing method according to claim 33, wherein

the laminated structure further includes an acid-modified polyolefin resin layer sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is formed of a polypropylene resin, and the acid-modified polyolefin layer and the innermost layer formed of the polypropylene resin are laminated by hot lamination at a process temperature not lower than the softening point of the acid-modified polyolefin resin.

37. (New) The heat-sealing method according to claim 33, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is a polyolefin resin film, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by sandwich lamination, and the laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

38. (New) The heat-sealing method according to claim 33, wherein

the laminated structure further includes an extruded resin layer of an acid-modified polyolefin resin sandwiched between the second chemical conversion coating and the innermost layer, the innermost layer is formed of a polyolefin resin, the extruded resin layer and the innermost layer are laminated to the second chemical conversion coating by coextrusion, and the laminated structure is heated at a temperature not lower than the softening point of the acid-modified polyolefin resin.

39. (New) The heat-sealing method according to claim 27, wherein both the sealing surfaces of the sealing head are provided with recesses.

40. (New) The heat-sealing method according to claim 33, wherein

the adhesive films are formed of an unsaturated carboxylic acid graft propylene resin, a metal-crosslinked polyethylene resin or a copolymer of ethylene or propylene, and an acrylic acid or methacrylic acid.